

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of:

Sorrells *et al.*

Patent. No.: 7,110,435 B1

Issued: September 19, 2006

For: **Spread Spectrum Applications of  
Universal Frequency Translation**

Confirmation No.: 8068

Art Unit: 2634

Examiner: Odom, Curtis B.

Atty. Docket: 1744.0450002

**Request for Certificate of Correction  
Under 37 C.F.R. § 1.322**

*Attn: Certificate of Correction Branch*

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

It is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.322 be issued for the above-captioned United States Patent. This Certificate of Correction is being requested due to mistakes which appear in the printed patent. These mistakes were made by the U.S. Patent and Trademark Office.

Specifically, the printed patent contains the following errors for which a Certificate of Correction is respectfully requested:

***Errors in Section (56) - References Cited***

All of the references that were cited in the Seventh Supplemental Information Disclosure Statement, filed November 17, 2005, are missing from Section (56). The specific references are noted on the enclosed PTO/SB/44 form. A copy of the date-stamped PTO-1449 form is enclosed as Exhibit A.

In the listing of Foreign Patent Documents, the following corrections should be made:

- Citations for "EP 0 276 130 A2&A3" and "DE 692 21 098 T2" should be added. The EP document was cited in the First Supplemental Information Disclosure Statement, filed October 9, 2002. The DE document was cited in the Sixth Supplemental Information Disclosure Statement, filed September 29, 2005. Copies of the date-stamped PTO-1449 form pages listing these citations are enclosed as Exhibits B and C, respectively.
- The citation of "EP 0 732 9 803" should be replaced with --EP 0 732 803--. This reference was cited in the Information Disclosure Statement, filed April 19, 2002 (on page 11 of the PTO-1449 form, which is enclosed as Exhibit D).
- The citation of "WO 00/314062000 6/2000" should be deleted. No such document was cited in the prosecution history of this patent.

### ***Remarks***

The above-noted corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

A completed Form PTO/SB/44 accompanies this request, with the above-noted corrections printed thereon. Accordingly, a Certificate of Correction is believed proper and issuance thereof is respectfully requested.

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey T. Helvey  
Attorney for Patentees  
Registration No. 44,757

Date: August 10, 2007

1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600

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# **Exhibit A**

FORM PTO-1449

ATTY. DOCKET NO.  
1744.0450002APPLICATION NO.  
09/525,185SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTFIRST NAMED INVENTOR  
David F. SorrellsFILING DATE  
March 14, 2000ART UNIT  
2634**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF65	5,787,125	07/1998	Mittel			
	AG65	5,878,088	03/1999	Knutson et al.			
	AH65	6,215,828	04/2001	Signell et al.			
	AI65	5,703,584	12/1997	Hill			

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0450002	APPLICATION NO. 09/525,185
FIRST NAMED INVENTOR David F. Sorrells	
FILING DATE March 14, 2006	NOV 17 2005 ART UNIT 2634

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA66	5,887,001	03/1999	Russell			
	AB66	6,298,065 B1	10/2001	Dombkowski et al.			
	AC66	2002/0080728 A1	06/2002	Sugar et al.			
	AD66	2002/0163921 A1	11/2002	Ethridge et al.			
	AE66	6,963,734 B2	11/2005	Sorrells et al.			
	AF66	6,005,506	12/1999	Bazarjani et al.			
	AG66	6,438,366 B1	08/2002	Lindfors et al.			
	AH66	2001/0015673 A1	08/2001	Yamashita et al.			
	AI66	2003/0045263 A1	03/2003	Wakayama et al.			

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER	DATE CONSIDERED
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FORM PTO-1449  SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			ATTY. DOCKET NO. 1744.0450002	APPLICATION NO. 09/525,185			
			FIRST NAMED INVENTOR David F. Sorrells				
			FILING DATE March 14, 2000	ART UNIT 2634			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA67	5,196,806	03/1993	Ichihara			
	AB67	5,410,195	04/1995	Ichihara			
	AC67	6,404,823 B1	06/2002	Grange et al.			
	AD67	6,618,579 B1	09/2003	Smith et al.			
	AE						
	AF						
	AG						
	AH						
	AI						
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
EXAMINER INITIAL	DOC. REF.	CITATION					
	AN						
	AO						
	AP						
	AQ						
	AR						
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

# **Exhibit B**

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

# **Exhibit C**

P34  
SEP 29 2005

				Page 1 of 6			
<p style="text-align: center;"><b>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b></p>				ATTY. DOCKET NO. 1744.0450002	APPLICATION NO. 09/525,185		
				INVENTORS Sorrells et al.			
				FILING DATE March 14, 2000	ART UNIT 2634		
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
CD	AB60	4,789,837	12/1988	Ridgers	—	—	
	AC60	5,634,207	05/1997	Yamaji et al.	—	—	
	AD60	5,642,071	06/1997	Sevenhans et al.	—	—	
	AE60	6,211,718 B1	04/2001	Souetinov	—	—	
	AF60	6,212,369 B1	04/2001	Avasarala	—	—	
	AG60	6,308,058 B1	10/2001	Souetinov et al.	—	—	
	AH60	6,633,194 B2	10/2003	Amborg et al.	—	—	
CD	AI60	2001/0036818 A1	11/2001	Dobrovolny	—	—	
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
CD	AM23	DE 692 21 098 T2	01/1998	DE	—	—	No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
EXAMINER INITIAL	DOC. REF.	CITATION					
	AN						
	AO						
	AP						
CD	AQ59	Hellwarth, G.A. and Jones, G.D., "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).					
CD	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.					
EXAMINER Curtis Odom				DATE CONSIDERED 11/21/05			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

# **Exhibit D**

APR 19 2002  
614560738  
PATENT & TRADEMARK OFFICEATTY. DOCKET NO.  
1744.0450002APPLICATION NO.  
09/525,185APPLICANT  
Sorrells et al.FILING DATE  
March 14, 2000GROUP  
2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA11	4,602,220	07/1986	Kurihara	331	19	
AB11	4,603,300	07/1986	Welles, II et al.	329	50	
AC11	4,612,464	09/1986	Ishikawa et al.	307	496	
AD11	4,612,518	09/1986	Gans et al.	332	21	
AE11	4,616,191	10/1986	Galani et al.	331	4	
AF11	4,621,217	11/1986	Saxe et al.	315	1	
AG11	4,628,517	12/1986	Schwarz et al.	375	40	
AH11	4,634,998	01/1987	Crawford	331	1 A	
AI11	4,648,021	03/1987	Alberkrack	363	157	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AJ11	EP 0 560 228 A1	09/1993	EP	H03D	7/12	N/A
AK11	FR 2 245 130	04/1975	FR	H03K	5/13	Yes (See AP50)
AL11	DE 35 41 031 A1	05/1986	DE	H03D	3/00	Yes (See AR50)
AM11	EP 0 732 803 A1	09/1996	EP	H03D	3/00	Yes (See AN51)

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	11	Gregorian, R. et al., "Switched-Capacitor Circuit Design," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).
AO	11	Groshong et al., "Undersampling Techniques Simplify Digital Radio," <i>Electronic Design</i> , Penton Publishing, pp. 67-68, 70, 73-75 and 78 (May 23, 1991).
AP	11	Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, pp. 629-635 (December 1966).
AQ	11	Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," <i>Antennas and Propagation</i> , IEE, pp. 113-117 (1981).
AR	11	Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).

EXAMINER

Curtis Ode

DATE CONSIDERED

4/29/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 1 of 2

PATENT NO: 7,110,435 B1

DATED: September 19, 2006

INVENTORS: Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

### Section (56)

Under "U.S. Patent Documents", please insert the following citations:

5,787,125	07/1998	Mittel
5,878,088	03/1999	Knutson <i>et al.</i>
6,215,828	04/2001	Signell <i>et al.</i>
5,703,584	12/1997	Hill
5,887,001	03/1999	Russell
6,298,065 B1	10/2001	Dombkowski <i>et al.</i>
2002/0080728 A1	06/2002	Sugar <i>et al.</i>
2002/0163921 A1	11/2002	Ethridge <i>et al.</i>
6,963,734 B2	11/2005	Sorrells <i>et al.</i>
6,005,506	12/1999	Bazarjani <i>et al.</i>
6,438,366 B1	08/2002	Lindfors <i>et al.</i>
2001/0015673 A1	08/2001	Yamashita <i>et al.</i>
2003/0045263 A1	03/2003	Wakayama <i>et al.</i>
5,196,806	03/1993	Ichihara
5,410,195	04/1995	Ichihara
6,404,823 B1	06/2002	Grange <i>et al.</i>
6,618,579 B1	09/2003	Smith <i>et al.</i>

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW  
Washington DC 20005-3934  
Atty. Dkt. No. 1744.0450002

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 2

PATENT NO: 7,110,435 B1

DATED: September 19, 2006

INVENTORS: Sorrells *et al.*

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Under "Foreign Patent Documents", please insert the following citations:

DE 692 21 098 T2	01/1998	DE
EP 0 276 130 A2&A3	07/1998	EP

Under "Foreign Patent Documents", please replace "EP 0 732 9 803 A1" with --EP 0 732 803 A1--.

Under "Foreign Patent Documents", please delete "WO 00/314062000 6/2000".

### MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW  
Washington DC 20005-3934  
Atty. Dkt. No. 1744.0450002

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.